In the Claims:

Claims 1-14 (cancelled).

Claim 15 (currently amended): An adjustable radio frequency

identification data communications device for use with a remote interrogator unit,

the device comprising:

a monolithic semiconductor integrated circuit having integrated circuitry;

transmitter circuitry provided on the monolithic integrated circuit and

forming at least part of the integrated circuitry;

an antenna electrically coupled to the transmitter circuitry and configured

to communicate with the remote interrogator unit;

a power source electrically coupled to the integrated circuitry and

configured to generate operating power for the communications device; and

at least one of the antenna and the transmitter circuitry having

reconfigurable electrical characteristics, the electrical characteristics being

reconfigurable to selectively tune the at least one of the antenna and the

transmitter circuitry for sensitivity within a range of tuned and detuned states to

realize a desired transmitter range of the communications device in response to

a command from the remote interrogator unit.

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Claim 16 (currently amended): An adjustable radio frequency

identification data communications device in accordance with claim 15 wherein

the transmitter circuitry has at least one circuit with at least one selectively

tunable circuit element electrically reconfigurable to modify the transmission

range of the transmitter circuitry.

Claim 17 (currently amended): An adjustable radio frequency

identification data communications device in accordance with claim 16 wherein

the at least one circuit comprises a plurality of fixed matching networks and

circuitry configured to selectively switch one of the fixed matching networks into

electrical connection with the transmitter circuitry in order to adjust tuning of the

transmitter circuitry and the antenna.

Claim 18 (currently amended): An adjustable radio frequency

identification data communications device in accordance with claim 16 wherein

the at least one circuit comprises an adjustable circuit element which selectively

causes the transmitter circuitry and the antenna to have mismatched

impedances.

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Claim 19 (currently amended): An adjustable radio frequency

identification data communications device in accordance with claim 15 and

further comprising receiver circuitry having at least one circuit with at least one

selectively tunable circuit element electrically reconfigurable to modify the

reception range of the receiver circuitry in response to a command from the

interrogator unit.

Claim 20 (currently amended): An adjustable radio frequency

identification data communications device in accordance with claim 19 wherein

the at least one circuit comprises a plurality of fixed matching networks and

circuitry configured to selectively switch one of the fixed matching networks into

electrical connection with the receiver circuitry, in response to the command

from the interrogator, in order to adjust tuning of the receiver circuitry and the

antenna.

Claim 21 (currently amended): An adjustable radio frequency

identification data communications device in accordance with claim 19 wherein

the at least one circuit comprises an adjustable circuit element which selectively

causes the receiver circuitry and the antenna to have mismatched impedances.

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Claim 22 (currently amended): An adjustable radio frequency

identification data communications device for use with a remote interrogator unit,

the device comprising:

a monolithic integrated circuit including receiver circuitry configured to

receive an interrogation signal from the interrogator unit;

an antenna electrically coupled to the receiver circuitry, the antenna

configured to receive the interrogation signal from the interrogator unit and

deliver the interrogation signal to the receiver;

a battery electrically coupled to the integrated circuit and configured to

provide power to the receiver circuitry; and

at least one of the antenna and the receiver having reconfigurable

electrical characteristics, the electrical characteristics being reconfigurable, in

response to a command from the interrogator unit, to selectively tune the at least

one of the antenna and the receiver circuitry within a range of tuned and

detuned states to realize a desired reception range of the communications

device.

Claim 23 (currently amended): An adjustable radio frequency

identification data communications device in accordance with claim 22 wherein

the receiver circuitry has at least one circuit with at least one selectively tunable

circuit element electrically reconfigurable to modify the reception range of the

receiver circuitry.

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Claim 24 (currently amended): An adjustable radio frequency

identification data communications device in accordance with claim 23 wherein

the at least one circuit comprises a plurality of fixed matching networks and

circuitry configured to selectively switch one of the fixed matching networks into

electrical connection with the receiver circuitry in order to adjust tuning of the

receiver circuitry and the antenna.

Claim 25 (currently amended): An adjustable radio frequency

identification data communications device in accordance with claim 23 wherein

the at least one circuit comprises an adjustable circuit element which selectively

causes the receiver circuitry and the antenna to have mismatched impedances.

Claim 26 (currently amended): An adjustable radio frequency

identification data communications device in accordance with claim 22 and

further comprising transmitter circuitry having at least one circuit with at least

one selectively tunable circuit element electrically reconfigurable to modify the

transmission range of the transmitter circuitry, in response to a command from

the interrogator unit.

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Claim 27 (currently amended): An adjustable radio frequency

identification data communications device in accordance with claim 26 wherein

the at least one circuit comprises a plurality of fixed matching networks and

circuitry configured to selectively switch one of the fixed matching networks into

electrical connection with the transmitter in order to adjust tuning of the

transmitter circuitry and the antenna.

Claim 28 (currently amended): An adjustable radio frequency

identification data communications device in accordance with claim 26 wherein

the at least one circuit comprises an adjustable circuit element which selectively

causes the transmitter circuitry and the antenna to have mismatched

impedances.

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Claim 29 (currently amended): A method of adapting a radio frequency

identification data communications device for use with a remote interrogator unit,

the method comprising:

providing transponder circuitry;

providing an antenna electrically coupled to the transponder circuitry

for communicating with a remote interrogator unit; and

selectively tuning at least one of the antenna and the transponder

circuitry within a range of tuned and detuned states to realize a desired

sensitivity responsive to an interrogation signal transmitted by the interrogator

unit.

Claim 30 (original): The method of claim 29 wherein the step of

selectively tuning comprises configuring electrical conduction of the transponder

circuit.

Claim 31 (original): The method of claim 29 wherein the transponder

circuit is selectively tuned by electrically switching in one or more of a plurality

of fixed circuit networks for realizing the desired receiver sensitivity of the

communication device.

Claim 32 (original): The method of claim 29 wherein the transponder

circuit includes a circuit network, the method further including the step of

selectively tuning the circuit network.

Claim 33 (original): The method of claim 29 wherein the transponder

circuit comprises a receiver circuit, and the step of selectively tuning comprises

detuning the receiver circuit.

Claim 34 (original): The method of claim 29 wherein the transponder

circuit comprises a transmitter circuit, with the step of selectively tuning

comprising detuning the transmitter circuit.

Claim 35 (currently amended): A method of adapting a radio frequency

identification data communications device for use with a remote interrogator unit,

the method comprising:

electrically coupling an active transmitter to an antenna, the transmitter

defining at least a portion of a monolithic RFID integrated circuit configured to

communicate with a remote interrogator; and

selectively tuning at least one of the antenna and the transmitter to a state

selected from a range of tuned and detuned states to realize a desired

transmitter range in response to a command transmitted by the interrogator unit.

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Claim 36 (original): A method in accordance with claim 35 wherein the

transmitter has at least one circuit with at least one selectively tunable circuit

element electrically reconfigurable to modify the transmission range of the

transmitter.

Claim 37 (currently amended): A method of adapting a radio frequency

identification data communications device for use with a remote interrogator unit,

the method comprising:

electrically coupling an active transmitter to an antenna, the transmitter

defining at least a portion of a monolithic RFID integrated circuit configured to

communicate with a remote interrogator; and

selectively tuning the transmitter to a state selected from a range of tuned

and detuned states to realize a desired transmitter range, the selectively tuning

including providing a plurality of fixed matching networks and circuitry configured

to selectively switch one of the fixed matching networks into electrical

connection with the transmitter, in response to a command transmitted by the

interrogator unit, in order to adjust impedance matching between the transmitter

and the antenna.

Claim 38 (original): A method in accordance with claim 36 wherein the at

least one circuit comprises an adjustable circuit element which selectively

causes the transmitter and the antenna to have mismatched impedances.

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Claim 39 (original): A method in accordance with claim 35 and further

comprising a receiver having at least one circuit with at least one selectively

tunable circuit element electrically reconfigurable to modify the reception range

of the receiver.

Claim 40 (original): A method in accordance with claim 39 wherein the at

least one circuit comprises a plurality of fixed matching networks and circuitry

configured to selectively switch one of the fixed matching networks into electrical

connection with the receiver in order to adjust tuning of the receiver and the

antenna.

Claim 41 (original): A method in accordance with claim 39 wherein the at

least one circuit comprises an adjustable circuit element which selectively

causes the receiver and the antenna to have mismatched impedances.

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Claim 42 (currently amended): A method of adapting a radio frequency identification data communications device for use with a remote interrogator unit, the method comprising:

electrically coupling a backscatter receiver to an antenna, the receiver defining at least a portion of a monolithic RFID integrated circuit configured to communicate with a remote interrogator; and

selectively tuning at least one of the antenna and the receiver to a state selected from a range of tuned and detuned states to realize a desired reception range in response to a command transmitted by the interrogator unit.

Claim 43 (original): A method in accordance with claim 42 wherein the receiver has at least one circuit with at least one selectively tunable circuit element electrically reconfigurable to modify the reception range of the receiver.

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Claim 44 (currently amended): A method of manufacturing adapting a

radio frequency identification data communications device for use with a remote

interrogator unit, the method comprising:

electrically coupling a backscatter receiver to an antenna, the receiver

defining at least a portion of a monolithic RFID integrated circuit configured to

communicate with a remote interrogator; and

selectively tuning at least one of the antenna and the receiver to a state

selected from a range of tuned and detuned states to realize a desired reception

range in response to a command transmitted by the interrogator unit, the

selectively tuning including providing a plurality of fixed matching networks, and

circuitry configured to selectively switch one of the fixed matching networks into

electrical connection with the receiver in order to adjust impedance matching

between the receiver and the antenna.

Claim 45 (original): A method in accordance with claim 43 wherein the at

least one circuit comprises an adjustable circuit element which selectively

causes the receiver and the antenna to have mismatched impedances.

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Claim 46 (currently amended): A method of manufacturing adapting a

radio frequency identification data communications device for use with a remote

interrogator unit, the method comprising:

electrically coupling a backscatter receiver to an antenna, the receiver

defining at least a portion of a monolithic RFID integrated circuit configured to

communicate with a remote interrogator, the RFID integrated circuit further

including a transmitter having at least one circuit with at least one selectively

tunable circuit element electrically reconfigurable to modify the transmission

range of the transmitter;

selectively tuning at least one of the antenna and the receiver to a state

selected from a range of tuned and detuned states to realize a desired reception

range in response to a command transmitted by the interrogator unit, the

selectively tuning including providing a plurality of fixed matching networks, and

circuitry configured to selectively switch one of the fixed matching networks into

electrical connection with the receiver in order to adjust impedance matching

between the receiver and the antenna; and

selectively tuning the at least one circuit of the transmitter to modify the

transmission range of the transmitter.

Claim 47 (original): A method in accordance with claim 46 wherein the at

least one circuit comprises a plurality of fixed matching networks and circuitry

configured to selectively switch one of the fixed matching networks into electrical

connection with the transmitter in order to adjust impedance matching between

the transmitter and the antenna.

Claim 48 (original): A method in accordance with claim 46 wherein the at

least one circuit comprises an adjustable circuit element which selectively

causes the transmitter and the antenna to have mismatched impedances.

An adjustable radio frequency Claim 49 (currently amended):

identification data communications device for use with a remote interrogator, the

device comprising:

an a monolithic integrated circuit including a receiver configured to receive

an interrogation signal from the interrogator unit, and including a backscatter

transmitter, and including a memory configured to store data to distinguish the

device from other devices;

an antenna coupled to the receiver;

a battery electrically coupled to the integrated circuit and configured to

provide power to the integrated circuit; and

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the receiver having a plurality of fixed matching circuits and circuitry

configured to selectively switch one of the fixed matching circuits into electrical

connection with the receiver circuitry in order to adjust tuning of the receiver

circuitry and the antenna to realize a desired reception range of the

communications device, in response to a command from the interrogator.

Claim 50 (currently amended): An adjustable radio frequency

identification data communications device in accordance with claim 49 wherein

at least one of the fixed matching circuits is configured to cause the receiver and

the antenna to have mismatched impedances.

Claim 51 (currently amended): An adjustable radio frequency

identification data communications device in accordance with claim 49 wherein

the integrated circuit further includes a transmitter having at least one circuit

with at least one selectively tunable circuit element electrically reconfigurable to

modify the transmission range of the transmitter, in response to a command from

the interrogator unit.

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An adjustable radio frequency Claim 52 (currently amended):

identification data communications device in accordance with claim 51 wherein

the at least one circuit comprises a plurality of fixed matching networks and

circuitry configured to selectively switch one of the fixed matching networks into

electrical connection with the transmitter in order to adjust tuning of the

transmitter circuitry and the antenna.

An adjustable radio frequency Claim 53 (currently amended):

identification data communications device in accordance with claim 51 wherein

the at least one circuit comprises an adjustable circuit element which selectively

causes the transmitter circuitry and the antenna to have mismatched

impedances.

Claim 54 (new): An adjustable radio frequency identification device for

use with a remote interrogator unit, the device comprising:

a monolithic semiconductor integrated circuit having integrated circuitry;

transmitter circuitry provided on the monolithic integrated circuit and

forming at least part of the integrated circuitry;

an antenna electrically coupled to the transmitter circuitry and configured

to communicate with the remote interrogator unit;

a power source electrically coupled to the integrated circuitry and

configured to generate operating power for the communications device; and

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the transmitter circuitry having reconfigurable electrical characteristics, the

electrical characteristics being reconfigurable to selectively tune at least one of

the transmitter circuitry and antenna within a range of tuned and detuned states

to modify the transmission range of the radio frequency identification device.

Claim 55 (new): An adjustable radio frequency identification device in

accordance with claim 54 wherein the transmitter circuitry has a plurality of fixed

matching networks and circuitry configured to selectively switch one of the fixed

matching networks into electrical connection with the transmitter circuitry in

order to adjust tuning of the transmitter circuitry and the antenna.

Claim 56 (new): An adjustable radio frequency identification device in

accordance with claim 54 wherein the transmitter circuitry comprises an

adjustable circuit element which selectively causes the transmitter circuitry and

the antenna to have mismatched impedances.

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Claim 57 (new): An adjustable radio frequency identification device for

use with a remote interrogator unit, the device comprising:

a semiconductor integrated circuit having integrated circuitry;

an antenna;

transmitter circuitry provided on the integrated circuit and forming at least

part of the integrated circuitry, the transmitter circuitry having reconfigurable

electrical characteristics, the electrical characteristics being reconfigurable to

selectively tune at least one of the transmitter circuitry and antenna within a

range of tuned and detuned states to modify the transmission range of the radio

frequency identification device;

electrical reconfigurable electrically circuitry having receiver

characteristics, the electrical characteristics being reconfigurable to selectively

tune at least one of the transmitter circuitry and antenna within a range of tuned

and detuned states to modify the reception range of the radio frequency data

communication device; and

a power source electrically coupled to the integrated circuitry and

configured to generate operating power for the radio frequency identification

device.

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Claim 58 (new): An adjustable radio frequency identification device in

accordance with claim 57 wherein the receiver circuitry has a plurality of fixed

matching networks and circuitry configured to selectively switch the fixed

matching networks in order to adjust tuning of the receiver circuitry and the

antenna.

Claim 59 (new): An adjustable radio frequency identification device in

accordance with claim 58 wherein the transmitter circuitry has a plurality of fixed

matching networks and circuitry configured to selectively switch the fixed

matching networks in order to adjust tuning of the transmitter circuitry and the

antenna.

Claim 60 (new): An adjustable radio frequency identification device in

accordance with claim 57 wherein the receiver circuitry comprises an adjustable

circuit element which selectively causes the receiver circuitry and the antenna to

have mismatched impedances.

Claim 61 (new): An adjustable radio frequency identification device in

accordance with claim 60 wherein the transmitter circuitry comprises an

adjustable circuit element which selectively causes the transmitter circuitry and

the antenna to have mismatched impedances.

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Claim 62 (new): An adjustable radio frequency identification device for

use with a remote interrogator unit, the device comprising:

an integrated circuit including receiver circuitry configured to receive an

interrogation signal from the interrogator unit;

an antenna electrically coupled to the receiver circuitry, the antenna

configured to receive the interrogation signal from the interrogator unit and

deliver the interrogation signal to the receiver circuitry;

a battery electrically coupled to the integrated circuit and configured to

provide power to the receiver circuitry; and

the receiver circuitry having reconfigurable electrical characteristics, the

electrical characteristics being reconfigurable to selectively tune the at least one

of the antenna and the receiver circuitry within a range of tuned and detuned

states to realize a desired reception range of the radio frequency identification

device.

Claim 63 (new): An adjustable radio frequency identification device in

accordance with claim 62 wherein the receiver circuitry has at least one circuit

with at least one selectively tunable circuit element electrically reconfigurable to

modify the reception range of the receiver circuitry.

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Claim 64 (new): An adjustable radio frequency identification device in

accordance with claim 63 wherein the at least one circuit comprises a plurality of

fixed matching networks and circuitry configured to selectively switch one of the

fixed matching networks into electrical connection with the receiver circuitry in

order to adjust tuning of the receiver circuitry and the antenna.

Claim 65 (new): An adjustable radio frequency identification device in

accordance with claim 63 wherein the at least one circuit comprises an

adjustable circuit element which selectively causes the receiver circuitry and the

antenna to have mismatched impedances.

Claim 66 (new): An adjustable radio frequency identification device in

accordance with claim 63 and further comprising transmitter circuitry having at

least one circuit with at least one selectively tunable circuit element electrically

reconfigurable to modify the transmission range of the transmitter circuitry.

Claim 67 (new): An adjustable radio frequency identification device in

accordance with claim 66 wherein the at least one circuit comprises a plurality of

fixed matching networks and circuitry configured to selectively switch one of the

fixed matching networks into electrical connection with the transmitter circuitry in

order to adjust tuning of the transmitter circuitry and the antenna.

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Claim 68 (new): An adjustable radio frequency identification device in

accordance with claim 66 wherein the at least one circuit comprises an

adjustable circuit element which selectively causes the transmitter circuitry and

the antenna to have mismatched impedances.

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